Attorney Docket No. 8194-205   PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Bottomley   Group Art Unit: 2634
Serial No.: 09/204,734   Examiner: C. Fan
Filed: December 3, 1998
For: DIGITAL RECEIVERS AND RECEIVING METHODS THAT SCALE FOR
        RELATIVE STRENGTHS OF TRAFFIC AND PILOT CHANNELS
        DURING SOFT HANDOFF

                                          November 6, 2001

                                          RECEIVED
Commissioner for Patents
Washington, DC 20231   FEB 0 4 2002

                         AMENDMENT   *Technology Center 2600*

Sir:

        This Amendment is responsive to the Official Action of July 18, 2001.

Pursuant to the new rules for amendments under 37 C.F.R. §1.121, the specification

and claims have been amended herein using the replacement paragraphs and rewritten

claims format. The present amendment also includes a section entitled **"VERSION

WITH MARKINGS TO SHOW CHANGES MADE"** attached hereto.

In the Specification:

        Please enter the amended paragraph at Page 8, lines 19-25 as follows:

        Despreading is used to form despread values for the traffic channels for each

base station signal, denoted x_T^g, where x indicates the base station signal and g is an

index for the base stations. For optimal performance, the detection statistic z should

be

$$z = K_d \hat{c}_d * x_T^d + K_e \hat{c}_e * x_T^e + K_f \hat{c}_f * x_T^f \qquad (5)$$

As shown in Equation (5), scale factors K_g are needed for optimal combining.

However, if the approach described in Figures 2 and 3 is used, then the scale factors

are not present, which can lead to suboptimal performance.